

CORRECTED VERSION

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
1 July 1999 (01.07.1999)

PCT

(10) International Publication Number  
WO 99/32448 A1

(51) International Patent Classification<sup>6</sup>: C07D 213/74,  
409/14, 401/14, 401/04, 213/64, 405/14, 403/04, 403/14,  
A61K 31/44, 31/50

(21) International Application Number: PCT/US98/27298

(22) International Filing Date:  
21 December 1998 (21.12.1998)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/068,199 19 December 1997 (19.12.1997) US  
09/215,426 18 December 1998 (18.12.1998) US

(71) Applicant (for all designated States except US): AMGEN  
INC. [US/US]; One Amgen Center Drive, Thousand Oaks,  
CA 91320-1799 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MANTLO, Nathan,  
B. [US/US]; 2538 Ginny Way, Lafayette, CO 80026 (US).  
HWANG, Chan, Kou [US/US]; 4862 Fountain Street,  
Boulder, CO 80304 (US). SPOHR, Ulrike, D. [CA/US];  
2925 Glenwood Drive #305, Boulder, CO 80301 (US).

(74) Agents: ODRE, Steven, M. et al.; Amgen Inc., One Am-  
gen Center Drive, Thousand Oaks, CA 91320-1799 (US).

(81) Designated States (*national*): AL, AM, AT, AU, AZ, BA,  
BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES,  
FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG,  
MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,  
SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN,  
YU, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ,  
BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE,  
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,  
NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,  
GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— With international search report.

(48) Date of publication of this corrected version:  
19 April 2001

(15) Information about Correction:  
see PCT Gazette No. 16/2001 of 19 April 2001, Section II

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: SUBSTITUTED PYRIDINE AND PYRIDAZINE COMPOUNDS AND THEIR PHARMACEUTICAL USE

(57) Abstract: Selected novel substituted pyridine and pyridazine compounds are effective for prophylaxis and treatment of diseases, such as TNF- $\alpha$ , IL-1 $\beta$ , IL-6 and/or IL-8 mediated diseases, and other maladies, such as cancer, pain and diabetes. The invention encompasses novel compounds, analogs, prodrugs and pharmaceutically acceptable salts thereof, pharmaceutical compositions and methods for prophylaxis and treatment of diseases and other maladies or conditions involving inflammation, cancer, pain, diabetes and the like. The subject invention also relates to processes for making such compounds as well as to intermediates useful in such processes.

WO 99/32448 A1